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ASHRAE	American Society of Heating, Refrigerating and Air Conditioning Engineers		
ASME	American Society of Mechanical Engineers	ISO	FOREIGN
ASQC	American Society for Quality Control	DIN	International Standards Organization
ASTM	American Society for Testing and Materials		Deutsches Institut für Normung
AWS	American Welding Society		(German Industrial Standards)
AWWA	American Water Works Association	IEC	International Electrotechnical Commission
EIA	Electronic Industries Association	ECMA	European Computer Manufacturers Association
IEEE	Institute of Electrical and Electronics Engineers	BS	British Standards
IES	Illuminating Engineering Society	JIS	Japanese International Standards
IPC	The Institute for Interconnecting & Packaging Electronic Circuits	SAA	Standards Association of Australia
ISA	Instrument Society of America	VDE	Verband Deutscher Elektrotechniker
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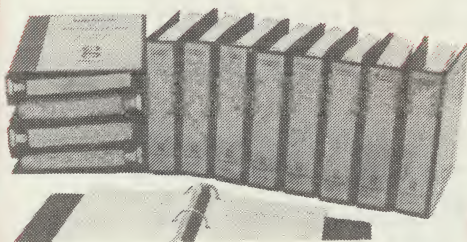
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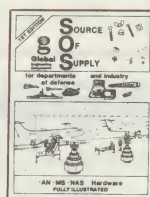


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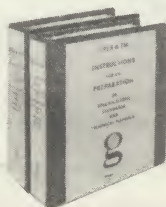
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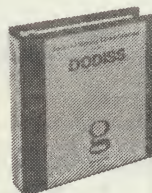
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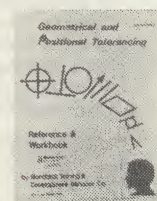
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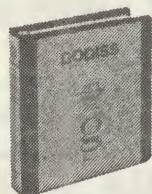
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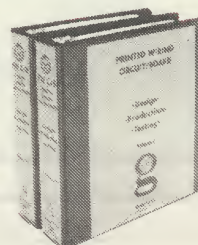
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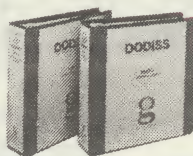
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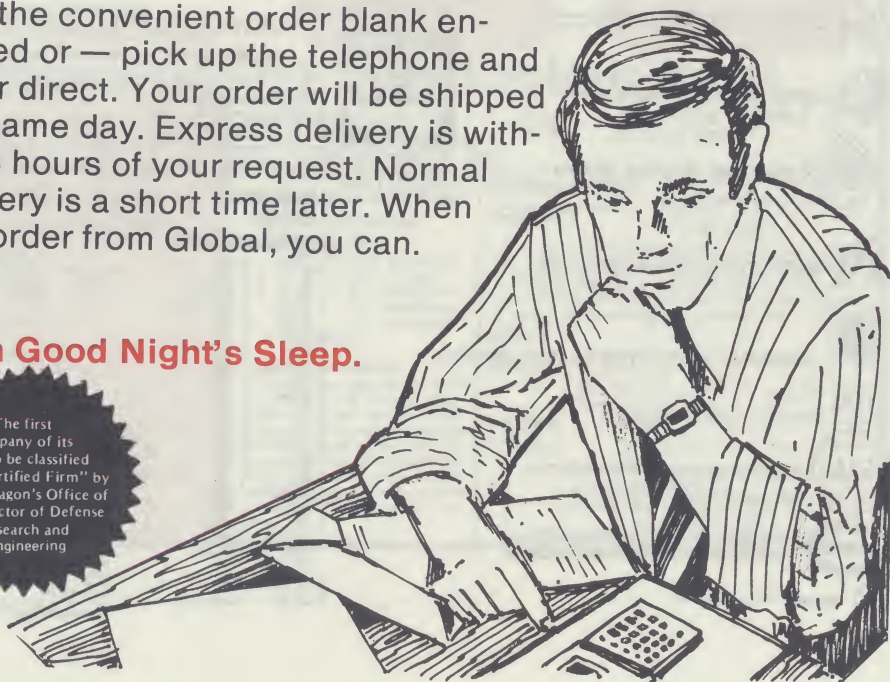
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NEW METRIC SECTION Includes:

- How to Convert an Inch Drawing to a Metric Drawing
- Hard or Soft Conversion Methods are Illustrated.
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- Conversion Tables for More Commonly Used Units
- Direct Reading Tables for Linear, Temperature, Screw Threads, Surface Texture and Other Units.
- Metric Glossary

Reprints of "SECTION #10 DIMENSIONS AND TOLERANCES," (ANSI Y14.5) may be purchased separately providing shop personnel and sub-contractor—every man on the job—the same interpretations for designing, manufacturing and inspection of products.

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Each Section is packed full with decision making information.
A brief description of these sections is listed below.

Section 1: Specifications and Standards—lists various government and approved industry specifications and standards that are used in the preparation of engineering drawings.

Section 2: General Information—outlines the responsibilities of engineering, drafting, checking and design personnel in the preparation of drawings.

Section 3: Drawing and Part Numbering—establishes the numbering system for the identification of engineering drawings and parts.

Section 4: Drawing Levels and Type—establishes the various drawing levels and types used in the preparation of engineering drawings. Forty-three (43) sample drawings are shown as typical examples for each type of drawing referenced in DOD-STD-100.

Section 5: Engineering Drawing Format—designates the standard format for engineering drawings. For example—drawing sizes, title block, revision block, list of material block, proprietary notice, next assembly block, security markings, zone determination and more!

Section 6: Drawing Titles—describes the approved method for developing drawing titles.

Section 7: Drawing Notes—standardizes drawing note composition and method of placing this data on drawings.

Section 8: Drafting Practices—defines various drafting practices such as drawing scale, lettering, linework, sectioning, projection, and descriptive geometry.

Section 9: Parts Lists—establishes the requirements and procedures to be observed in the preparation of a parts list integral with or separate from the drafting.

Section 10: Dimensions and Tolerances—establishes and illustrates the methods of specifying dimensions and tolerances on drawings. Defines and interprets "Geometric Tolerances" and "True Position Tolerances" (ANSI Y14.5). Metric conversion tables for linear dimensions included. Note: This Section Also Sold Separately.

Section 11: Surface Texture—spells out the method of specifying geometric characteristics of surface irregularities. It provides, through the use of symbols and numerical value classifications, a uniform system for accurately expressing the desired surface requirements.

Section 12: Casting Drawings—establishes the procedures to be followed in the preparation of casting drawings. Data on design practices is incidental to subject presentation and is intended only as a guide.

Section 13: Forging Drawings—procedures to be followed in the preparation of forging drawings. Data on design practices is incidental to subject presentation and is intended only as a guide.

Section 14: Identification Marking—establishes the engineering drawing requirements for specifying the marking of part identification, serialization and other information on hardware.

Section 15: Welding Designations—delineates the application of the approved welding symbols for use on drawings.

Section 16: Thread Representation—method of representing and specifying threads on engineering drawings, including metric threads.

Section 17: Electrical and Electronic Drafting—establishes standard methods for preparing electrical and electronic drawings.

Section 18: Drawing Change Procedure—methods of revising engineering drawings. These procedures apply only to drawings that have been released.

Section 19: Protective Coatings—establishes the methods for specifying protective coating requirements.

Section 20: Abbreviations—enumerates the rules for use of authorized abbreviations or preferred abbreviations.

Section 21: Tool and Drafting Procedure—provides standardized regulation for the preparation and interpretation of company tooling drawings. This section is concerned primarily with format and procedures peculiar to tooling drawings.

Section 22: Sheet Metal Drawings—establishes drafting and dimensioning practices pertinent to the preparation of drawings for parts to be fabricated from sheet metal. Additional information is presented to assist the draftsman in establishing proper dimensions for certain features of formed sheet metal parts.

Section 23: Packaging Drawings—provides a standard for the preparation and interpretation of company packaging drawings. This section is concerned with drawing format and procedure peculiar to packaging drawings.

Section 24: Facility Drawings—spells out the standard for the preparation and interpretation of company facility drawings. This section is concerned with drawing types, format and procedure normally associated with the architectural and construction industry.

Section 25: Definitions—this section contains words and terms related to engineering drawings and procedures not normally defined in standard dictionaries.

Appendices: Instructions for converting inch drawings to metric, writing metrics, conversion tables, glossary and much more.

Section 10M: Dimensions and Tolerances—same as section 10, but covers the new 1982 revised edition of ANSI Y14.5M to include metric and international coverage.

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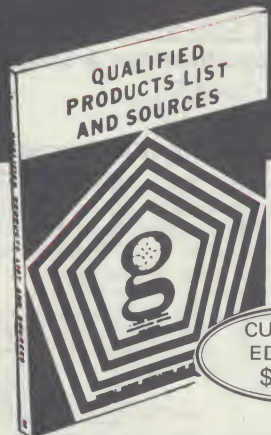
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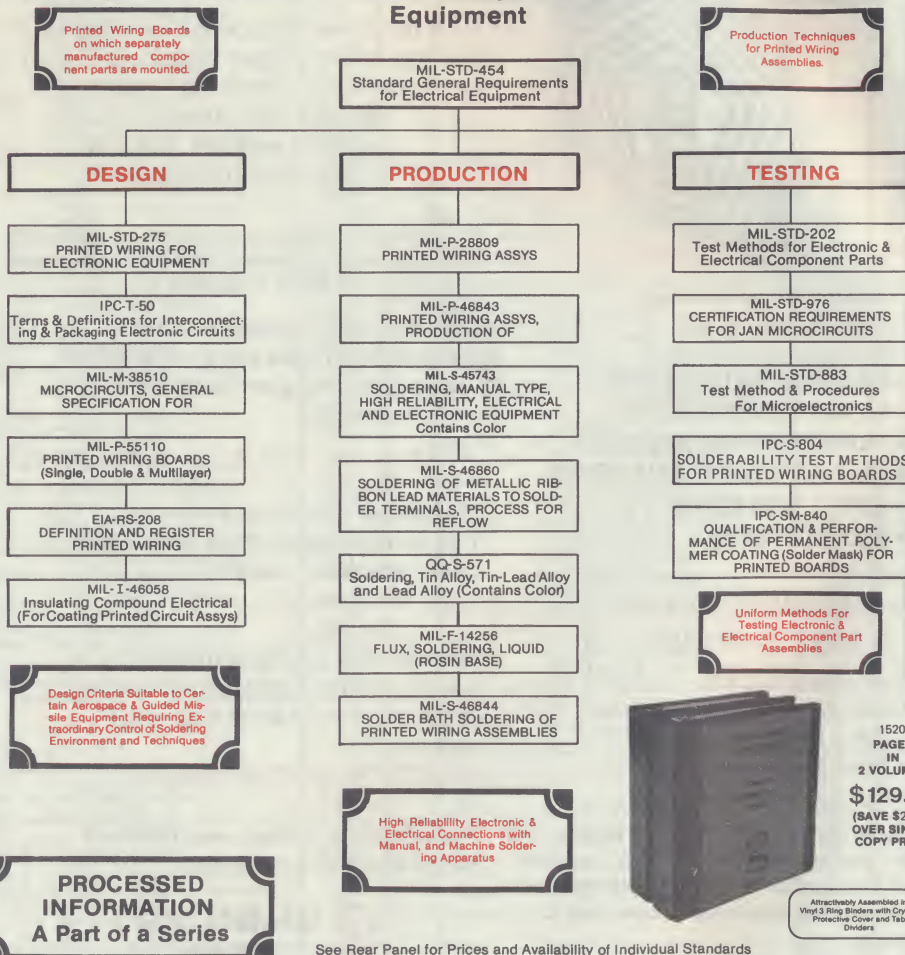
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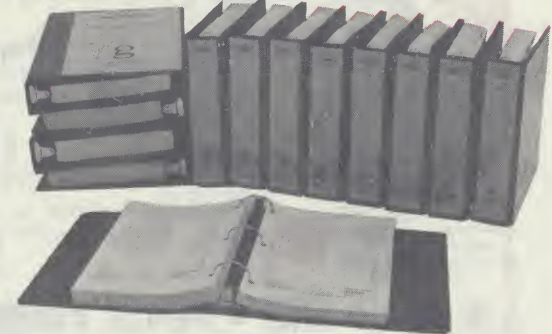
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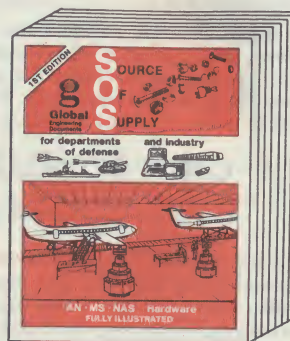
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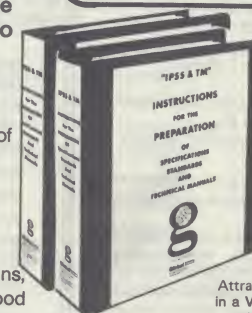
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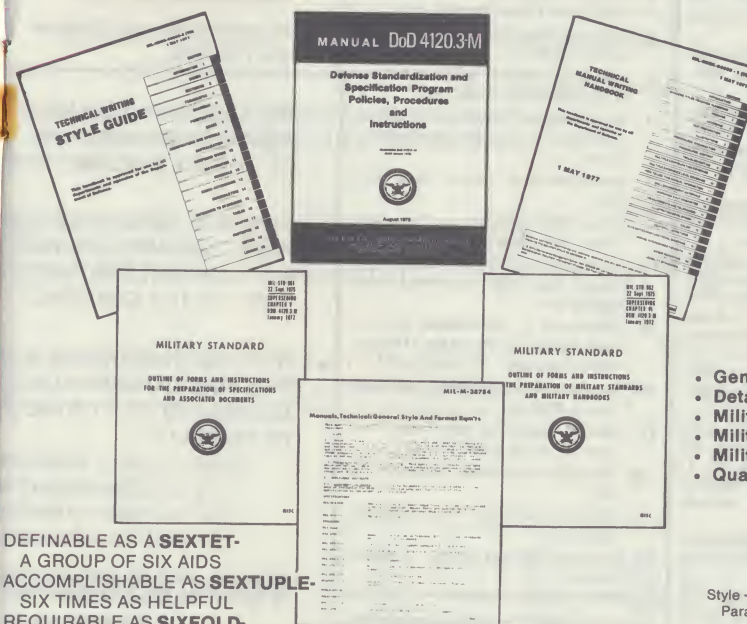
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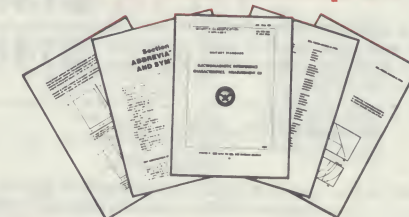
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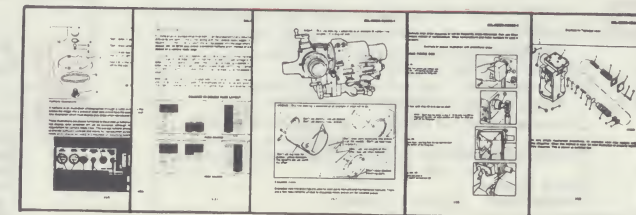
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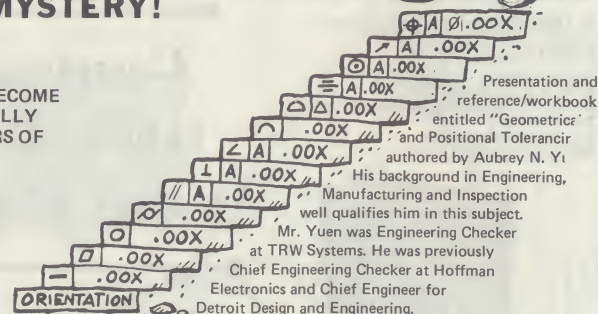
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- "IT IS COMPLICATED" NOT TRUE. Positional tolerancing and coordinate dimensioning are similar. Both are derived in basically the same way, making use of the allowance between mating parts. The allowable tolerance zone for mating parts is much simpler to calculate where positional tolerancing is used.
- "IT IS SUITABLE ONLY FOR PRECISION PARTS." NOT TRUE. Actually, positional tolerancing is simply a highly definitive method of expressing tolerances. Accuracy requirements are controlled by the values applied to the tolerance zone and should be as loose as the design permits.
- "IT IS SUITABLE ONLY FOR APPLICATIONS WHERE FUNCTIONAL GAGES ARE USED TO INSPECT THE PARTS, GENERALLY ASSOCIATED WITH VOLUME PRODUCTION." NOT TRUE. Actually, in inspection where low volume production is involved; templates, gridded sheets, and coordinate measuring devices can be used effectively in lieu of pin gages.
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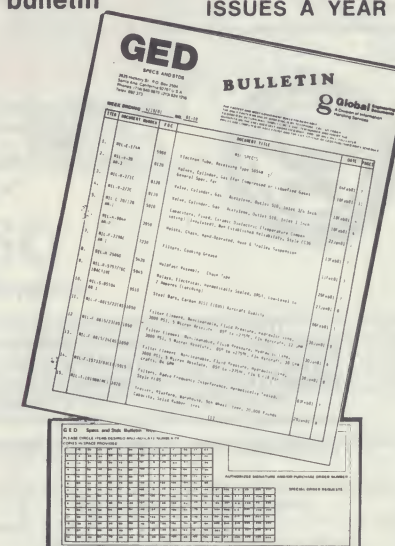
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FOREWORD

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All publications in this document were either published by DoD or coordinated with the Military Departments and DSA.

BY ORDER OF THE DIRECTOR, DEFENSE SUPPLY AGENCY

G. L. HEASLEY
Captain, SC, USN

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DSAM 8200.1/AR 702-4/NAVMATINST 4355.69/AFM 74-15/MCO P4855.4, Procurement Quality Assurance

ASPR XIV, Procurement Quality Assurance

MIL-Q-9858A, Quality Program Requirements

DoD Handbook H-50, Evaluation of a Contractor's Quality Program

MIL-I-45208A, Inspection Systems Requirements

DoD Handbook H-51, Evaluation of a Contractor's Inspection System

MIL-C-45662A, Calibration System Requirements

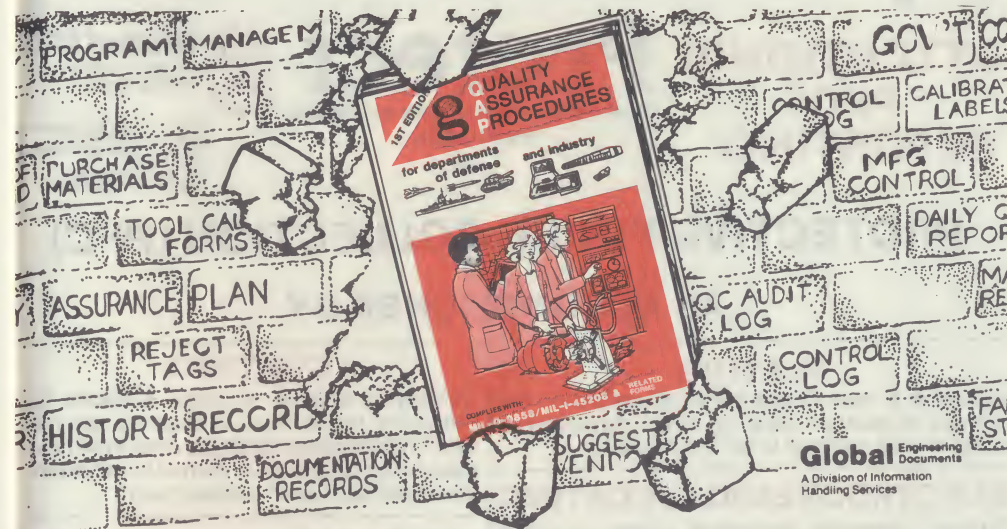
DoD Handbook H-52, Evaluation of Contractor's Calibration System

ASPR Appendix I, Material Inspection and Receiving Report

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ELECTROCHEMICAL COATING

Surface conversion treatments commonly called "Anodic" treatments applied to non-metallic aluminum and magnesium surfaces with the aid of electrolysis.

A COMPREHENSIVE LISTING FROM A TO Z OF PLATING AND COATINGS INCLUDED

Aluminum and Aluminum Alloys, Coating Aluminum, Inorganically Bonded, Coating Aluminum, Ion Vapor Deposited, Coating Aluminum, Vacuum Deposited, Coating Anodic Coatings for Zinc and Zinc Alloys Anodic Coatings, for Aluminum and Aluminum Alloys Type I
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Anodic, Coating, Hard, for Alum & Alum Alloys, Type III
Anodic, Coating, Sulfuric, Type II
Cadmium Plating (Electrodeposited)
Cadmium Plating, Low Embrittlement
Cadmium, Coating, Tin-Cadmium and Zinc
Cadmium - Titanium Plating, Low Embrittlement
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Electropolishing
Gold Plating, Electrodeposited
HAE, Anodic Treatment of Magnesium Alloys
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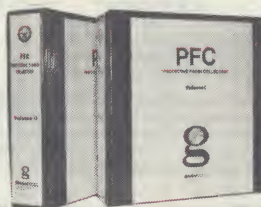
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AND AF-Navy Aeronautical Design Std
AQAP Allied Quality Assurance Pub
FED-HDBK Federal Handbook
FED-Spec Federal Specification
FED-STD Federal Standard
JAN-Spec Joint Army-Navy Specification
JAN-STD Joint Army-Navy Standard
MIL-HDBK Military Handbook
MIL-Spec Military Specification
MIL-STD Military Standard (Book-Form)
MS Military Standard (Sheet-Form)
QPL Qualified Products List
STANAG NATO Standardization Agreement
DEPARTMENT OF DEFENSE (DOD)
ANC AF-Navy-Civilian Bulletin
ASPR Armed Service Procurement Regulation
DESC Defense Electronics Supply Center
DID Data Item Description
DOD-Dir DOD Directives
DOD-Inst DOD Instruction
DODISS DOD Index of Specs & Stds
DLAH Defense Logistics Agency HDBK
DLAM Defense Logistics Agency Manual
DSAR Defense Logistics Agency Regulation
FIIG Federal Item Identification Guide
FSCL Federal Supply Class Listing
JCS-PUB Joint Chiefs of Staff Publication
MSS Military Supply Standard
SD Standardization Document
TD Technical Document

DEPARTMENT OF THE ARMY (DA)

DARCOM-M Army Matl Dev & Rdns CHD Manual
DARCOM-P Army Matl Dev & Rdns CHD Pamphlet
DARCOM-R Army Matl Dev & Rdns CHD Regulation
AR Army Regulation
CE Corps of Engineers
DA-CIR Dept of the Army Circular
DA-PAM Dept of the Army Pamphlet
FM Field Manual
MIS Missile Interim Specification
MPD Missile Purchase Description
ORD Ordnance
SB Supply Bulletin
SM Supply Manual
TB Technical Bulletin
TM Technical Manual
USA US Army

NAVY DEPARTMENT (USN)

AR Avionics Requirement
AS Air Standard
NAF Naval Aircraft Factory
NAVAIR Naval Air Systems Command
NAVELEX Naval Electronics Systems Comd
NAVEXOS Naval Executive Office
NAVFAC Naval Facilities Engineering Comd
NAVMAT Naval Material Command
NAVORD Naval Ordnance Systems Command
NAVPERNS Naval Bureau of Personnel
NAVVPUB Naval Publications & Printing Svc
OPNAV Chief of Naval Operations
OS Ordnance Standard

AND MANY OTHERS

DEPARTMENT OF THE AIR FORCE (AF)

AFAD AF Acquisition Document
AFLCM AF Logistics Command Manual
AFLCP AF Logistics Command Pamphlet
AFLCR AF Logistics Command Regulation
AFM Air Force Manual
AFP Air Force Pamphlet
AFPC AF Procurement Circular
AFPI AF Procurement Instruction
AFR Air Force Regulation
AFSCM AF Systems Command Manual
AFSCP AF Systems Command Pamphlet
AFSCR AF Systems Command Regulation
AWS Air Weather Service
SAMSO Space & Missile Systems Org

NATIONAL AERONAUTICS & SPACE ADMIN (NASA)

GMI Goddard Management Instruction
GSFC Goddard Space Flight Center
JSC Johnson Space Center
MSFC Marshall Space Flight Center
NAPR NASA Procurement Regulation
NASA-SP NASA Special Publication
NHB NASA Hand-Book
NMI NASA Management Instruction
NATIONAL BUREAU OF STANDARDS (NBS)
CS Commercial Standards
FIPS Federal Information Processing Stds
H Handbook
M Miscellaneous Publication
PS Product Standard
SP Special Publication

OTHER GOVERNMENT AGENCIES

NRC Nuclear Regulatory Commission
COM Commerce Dept
DOT Department of Transportation
FAA Federal Aviation Administration
FAR Federal Aviation Regulation
FPMR Federal Property Mgt Regulation
FSN Federal Stock Number
GPO Government Printing Office
GSA General Services Administration
HEW Health Education & Welfare
HUD Housing & Urban Development
JCP Joint Committee on Printing
NTIS Natl Technical Information Service

INDUSTRY SOCIETIES

ACI Amer Concrete Institute
AISI Amer Iron & Steel Institute
AMS Aerospace Material Spec (SAE)
ANSI Amer Natl Stds Institute
API Amer Petroleum Institute
ASME Amer Society of Mechanical Engrs
ASTM Amer Society for Testing & Materials
AWS Amer Welding Society
AWWA Amer Water Works Assoc.
EIA Electronics Industry Assoc.
IEEE Inst of Electrical & Electronic Engrs
IPC Inst of Printed Circuits
NEMA Natl Electrical Mfgs Assoc.
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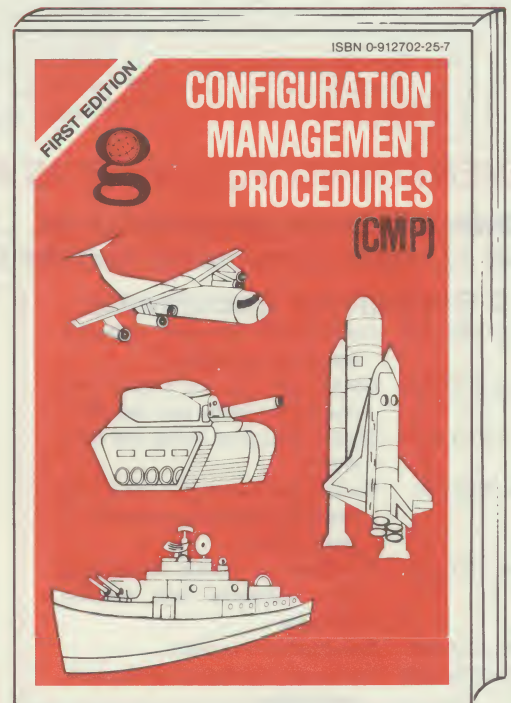
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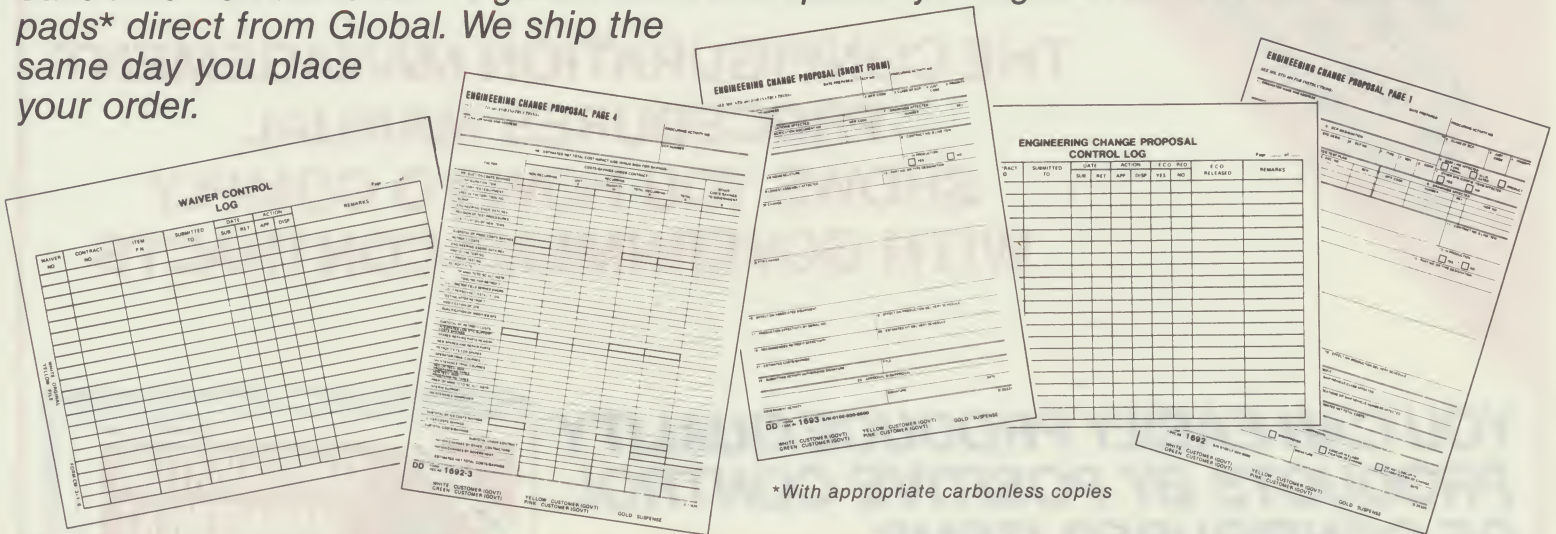
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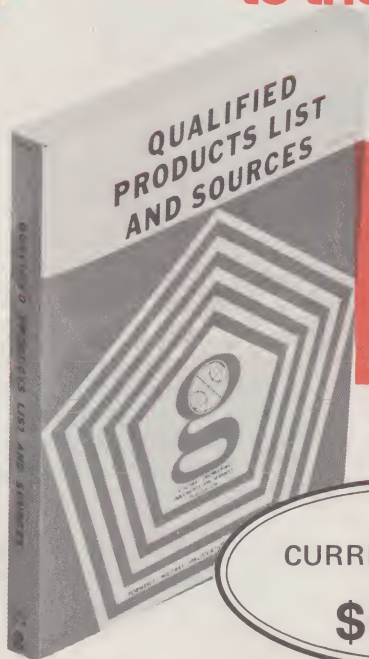
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NUMERICAL LISTINGS OF MAJOR APPLICABLE MILITARY ELECTRONIC COMPONENT AND MECHANICAL FASTENER SPECIFICATIONS AND SOURCES.

If you know only the MIL Spec. number, use this section to quickly identify its applicable QPL listing and qualified vendors.

FOR EXAMPLE:

- Numerical Listing
- Part number
- Qualified sources

Section 2

ALPHABETICAL LISTING OF MAJOR MILITARY SPECIFICATIONS AND DESCRIPTIONS BY PRODUCT CLASSIFICATION.

If you know only the identity of the part, use this section to locate its applicable MIL Spec./QPL number.

FOR EXAMPLE:

Alphabetical Listing
by product classification.

Section 3

MANUFACTURER'S INDEX

If you need to locate qualified manufacturers, use this section for correct name and up-to-date address. Listed in alphabetical order.

FOR EXAMPLE:

Manufacturer's name.

TYPE: FSB Gould
MIL-R-22684 (QPL 22684-35)
Resistors, Fixed, Film Insulated
/1

RL07*
Corning Glass
Dale Electronics
IRC Boone Div., TRW
Mepco/Electra
Welwyn

RL07
IRC Resistors

/2 RL20*
Corning Glass
Mepco/Electra
IRC Boone Div., TRW
Welwyn Canada
RL20
Dale Electronics

MIL-R-28769
MIL-R-39016

MIL-R-25018

MIL-R-27777

MIL-STD-790

MIL-R-15109

MIL-R-9991

MIL-R-11-1

MIL-R-11804

MIL-R-11804/1

MIL-R-55182

MIL-R-22684

MIL-R-14293

MIL-R-29

MIL-R-26

MIL-R-93

MIL-R-83401

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Columbus, OH 43215

Crescent Insulated Wire & Cable Co.
Sub. of TRW, Inc.
P.O. Box 850
Trenton, N.J. 08605

Crittendon Transformer Works, Inc.
13011 S. Spring St.
Los Angeles, CA 90016

Crouse-Hinds Co.
Wolf & 7th N St.
Syracuse, NY 13201

Crosby Valve & Gage Co.
43 Kendrick St.
Wrentham, MA 02093

Croven, Ltd.
500 Beach St.
P.O. Box 420
Whitby, Ontario, Canada

253 N. Vinado Ave.
Pasadena, CA 91107

DRW Electronics Corp.
100 Milbor Blvd.
Farmingdale, L.I.
NY 11735

Dage Manufacturing Co., Inc.
67 N. 2nd St.
Beech Grove, Ind 46107

Dale Electronics Canada Ltd.
18 Howden Dr.
Scarborough, Ontario, Canada

Dale Electronics, Inc.
P.O. Box 609
Columbus, Nebr. 68601
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Norfolk, NB 68601

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Providence, RI 02909

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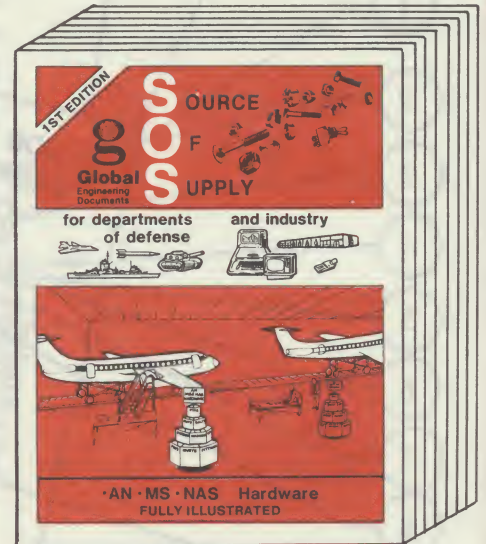
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SECTION 3 — ALPHABETICAL LISTING OF EACH MANUFACTURER AND DISTRIBUTOR WITH HIS COMPLETE ADDRESS AND PHONE NUMBER.

- 1
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- 11

1. PART NUMBER
2. TITLE
3. ILLUSTRATION
4. SIZE RANGE
5. MATERIAL CODE
6. PROCUREMENT SPECIFICATION
7. MANUFACTURERS
8. DISTRIBUTORS
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ACCELEROMETER - AIRCRAFT
ACCELEROMETER - AIRCRAFT

MS20074 BOLT, MACHINE, AIRCRAFT, ORILLEO HEAD COARSE THREAD

MS20074 SIZE RANGE: .190-24 THRU .750-10 UNC-3A
MATT'L CODE: (1)-STEEL
PROCUREMENT SPEC: MIL-B-8812

MANUFACTURERS
DUMONT AVIATION ASSOC.
ALL SIZES
PROOF INC.
250 THRU .625 UNC-3A
FEDERAL MFG. CO.
ALL SIZES
ONMARK INDUSTRIES
ALL SIZES
SCREW CORP.
190 THRU .500 UNC-3A
STANDARD PRESS STEEL
ALL SIZES
V.B. PRODUCTS
190 THRU .625 UNC-3A
VOI SHAN MFG.
ALL SIZES

DISTRIBUTORS
F & C SALES
ALL SIZES
FASTENER SALES CO.
190 THRU .500 UNC-3A
FORTUNE INDUSTRIES
190 THRU .625 UNC-3A
LAWRENCE ENGRG.
& SUPPLY
ALL SIZES
NATIONAL PRECISION PROO
ALL SIZES
UNITED SUPPLY CO. INC.
250 THRU .500 UNC-3A

MS20365 NUT, SELF-LOCKING, 250F

MS20365 SIZE RANGE: .112-40 THRU 1.164-32 UNC-3B
MATT'L CODE: (1)-STEEL, (2) COPPER, (3) ALUM
PROCUREMENT SPEC: AN-N-5

MANUFACTURERS
ACHILLE DIVISION
190 THRU .750 UNF-3B
STANDARD PARTS & EQUIP
ALL SIZES ALL MAT'L
BOOTS AIRCRAFT
ALL SIZES ALL MAT'L
THE KAYMAR CO.
ALL SIZES ALL MAT'L
STANDARD PRESS STEEL
ALL SIZES ALL MAT'L
UP TO THREE LINE MESSAGE HERE

DISTRIBUTORS
ASSOC. AIRCRAFT SUPPLY
190 THRU 1.000 UNF-3B
ALL MAT'L
BRENNER SUPPLY CO.
ALL SIZES (1) (2)
FASTENER SALES CO.
112 THRU .625 UNF-3B
F & C SALES CO.
ALL SIZES ALL MAT'L
FORTUNE INDUSTRIES
190 THRU 1.250 UNF-3B
ALL MAT'L
LAWRENCE ENGRG.
& SUPPLY
ALL SIZES ALL MAT'L
NATIONAL PRECISION PROO
190 THRU .750 UNF-3B
ALL SIZES (1) (2)
RIVES, SOLO UNIVERSAL HEAD,
ALUMINUM AND ALUMINUM ALLOY

MS20470 RIVET, SOLID UNIVERSAL HEAD, ALUMINUM AND ALUMINUM ALLOY

MS20470 SIZE RANGE: .062 THRU .375 OIA
MATT'L CODE: (A) ALUM 100, (B) ALUM 2017, (AD) ALUM 5056, (C) ALUM 2017, (D) ALUM 2024, (E) ALUM 2017 & (F) ALUM 2024
PROCUREMENT SPEC: MIL-R-5674

MANUFACTURERS
ALL SIZES ALL MAT'L

DISTRIBUTORS
AIRCRAFT THREADED INSERTS
ALL SIZES (A) (B) (C)

MS21050 NUT, SELF-LOCKING, PLATE, TWO LUG, 100 CSK, LOW HEIGHT, CRES, 125 KSI

MS21050 SIZE RANGE: .164-32 UNC-3B
MATT'L CODE: (1) CRES (A360)
PROCUREMENT SPEC: MIL-N-7928

MANUFACTURERS
BOOTS AIRCRAFT
ALL SIZES
THE KAYMAR CO.
190 THRU .3125 UNF-3B
STANDARD PRESS STEEL
ALL SIZES
VOI SHAN MFG. CO.
ALL SIZES

DISTRIBUTORS
BRENNER SUPPLY
190 THRU .250 UNF-3B
FASTENER SALES
100 UNF-3B & 190 THRU .250 UNF-3B
FORTUNE INDUSTRIES
ALL SIZES
STANDARD PARTS & EQUIP
ALL SIZES

MS21051 NUT, SELF-LOCKING, PLATE, ONE LUG, 100 CSK, LOW HEIGHT, ALLOY STEEL, 125 KSI

MS21051 SIZE RANGE: .138-32 UNC-3B
MATT'L CODE: ALLOY STEEL
PROCUREMENT SPEC: MIL-N-25027

MANUFACTURERS
AEROSPACE PRODUCTS
UNREPORTED
BOOTS AIRCRAFT MFG. CO.
UNREPORTED
ESNA DIVISION
UNREPORTED
KAYMAR MFG.
UNREPORTED
SPS TECHNOLOGIES
UNREPORTED
VOI SHAN MFG. CO.
UNREPORTED

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ADAMS SUPPLY CO.
UNREPORTED
AIMSCO, INC.
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AIRCRAFT FASTENERS
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AIR DISTRIBUTORS INC.
ALL SIZES ALL MAT'L
ALATC PRODUCTS
UNREPORTED
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MS21052 NUT, SELF-LOCKING, PLATE, ONE LUG, 100 CSK, LOW HEIGHT, CRES, 125 KSI

MS21052 SIZE RANGE: .138-32 UNF-3B THRU .438-UNF-3B THO
MATT'L CODE: CRES
PROCUREMENT SPEC: MIL-N-25027

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MS21053 NUT, SELF-LOCKING, PLATE, ONE LUG, 100 CSK, LOW HEIGHT, ALY STEEL, 125 KSI

MS21053 SIZE RANGE: .100 CSK, LOW HEIGHT, ALY STEEL, 125 KSI

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What About Backorders?



Sometimes an item is not on the shelf at the time we get your order. Rather than delay your other requests, we will ship your order . . . along with a backorder notice.

The backordered item is reserved for you. And there's no surcharge. Plus, we do all the work to make sure that item arrives from the source. That means you save the hassles and follow up calls to make sure your order is coming.

You can count on getting your ordered materials as fast as possible, without the extra expense and time-consuming work of contacting the sources.

When you pay by check, the payment is processed when we ship

your backorder. When you use your credit card or a deposit account, no charge is made for the item until it is actually shipped.

Terms And Conditions

What Are Your Terms And Conditions?



1. There is a minimum charge per order except for deposit account customers.
2. All handling and shipping charges are F.O.B., Santa Ana, California. Any applicable state and local taxes will be added.
3. All returns are subject to approval and there may be a 15% restocking charge on returned items.

Service With A Smile

If I Receive The Wrong Order, Who Should I Call?

Ask for Customer Service. You can count on immediate attention and a prompt response to your needs. We'll find out what happened and make sure you get what you ordered.

Can I Visit Global?

Please do. Stop by for a tour and a cup of coffee. We'll show you the library and you can meet our document specialists. If you don't live in Southern Calif., be sure you keep us in mind for your next business/vacation trip. We're only 20 minutes from Disneyland.

How Do I Get On Your Mailing List? Can I Add An Associate?

Just call us and tell us your mailing information. If you want to add several people, you can also drop us a note. We'll make sure you get all of our announcements and update information.

If I Receive A Copy That I Can't Read, What Should I Do?

Every day we receive masters from the government for various specs and standards. As we inspect these masters, we occasionally find a poor reproduction and try to correct it.

Of course, we may miss one. Just call us toll-free and tell us what you can't read. We'll pull the file and, if possible, ship you a better copy . . . the same day you call.

A Variety Of Products And Services

Do You Only Carry Engineering Documents?

We carry lots more than just specific engineering documents.

When you call Global, you can obtain copies of thousands of specifications and standards, ranging from food processing to making shoelaces.

When your request is for an item in our computer files, we can tell you instantly. If not, you can count on us to call you back with the information we find.

Can I Order Historical Documents?

You've come to the right source! Global maintains an impressive file of obsolete documents. Dating back to 1946. Give us a call and we'll see what we can find.

Can I Get Foreign Documents From Global?

Yes. You can order International (ISO), German (DIN), British (BIS), Japanese (JIS) and many more. We have a complete stock of ISO and DIN English translations. For a complete list, just request our price list.

Do You Have An Automatic Update Service?

Started in January 1985, our new automatic update service is a welcome bonus for our customers. This service means you can tell us to monitor specific documents for you and ship you a revision as soon as we receive it.

